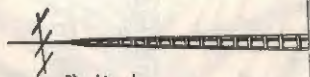


Gene

Van Sickle,

W9KJF

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JANUARY - 1966

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The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8:00 P.M., EST.

AMA-CHEWER STAFF

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Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

THE PRESIDENT'S FREQUENCY

In December approximately three years ago I remember singing my swan song in this manner after a very delightful year as president of the Indianapolis Radio Club.

Looking back, I have some very fond memories of meetings and association of ham buddies I will never forget, the directors meetings and the help given me by both the directors and the membership and last but not the least, the coffee and donuts at the meetings and the fattening food at the directors meetings that helped to keep me fat and healthy.

Although the attendance was not up to par as I had hoped for, I realize you can't be lucky all the time with a large attendance as I had my first year as President. I suppose there are too many other things of interest nowadays that attracted some members from the radio club to other activities.

In the past year I also have many persons to thank for the program portion of the meetings each being specially prepared for that meeting and all being equally interesting. In the year or years to come I hope to be present at each and every meeting and able to assist in any way I can to further the continued prosperity the club has had in the past. If I can assist in any way to help the new officers in any way please feel free to call on me at any time. Again thanks to a good group of guys.

Bert W. Brouse K9JSF

* * *

NEW OFFICERS

On the cover are the shining faces of our new officers, minus two who were not present when the photog got the group together. In the front are Jerry Lucas, W9APJ, president; Alvey Pittman, W9JJC, vice-president, and Dick Kinnett, K9VIE, treasurer. Backing them up are Bill Lueth, W9DSC, chief op, and Bert Brouse, K9JSF, director. Not present were Ward Studor, WA9CCX, secretary, and Lewis Carmean, WA9DYT, director. They all deserve your help in managing the club's affairs in the coming year, and they all want your ideas on future club activities.

COMING ACTIVITIES

The next club meeting will be January 14, at which time the new officers will be installed. There will be a joint meeting of the old and new officers the week before. All of these gallant leaders want very much to hear your comments on club activities and suggestions for programs. Get a hold of any of them before the January directors' meeting, or bring your ideas to the January business meeting. Make yourself heard. THIS IS YOUR CLUB.

* * *

PUT PURPOSE IN YOUR OPERATING

If you haven't tried it, traffic handling may seem dull, silly or frightening, depending on your background. However, this activity is a very useful way to perform our responsibility as radio operators using valuable spectrum space. To help those who haven't been bitten yet by the traffic bug, there is on pages 6 and 7 of this issue a reprint of an ARRL operating aid on traffic procedures. It's intended mainly for CW, but many of the procedures also apply to fone. Read it over, then listen to some of the nets. See what you're missing?

* * *

PUZZLE

Last month you were asked for the least number of diodes that may be used to obtain full wave rectification. The answer is one. Use this circuit:



This circuit is sometimes used as an instrument rectifier. We didn't say it had to be efficient, did we?

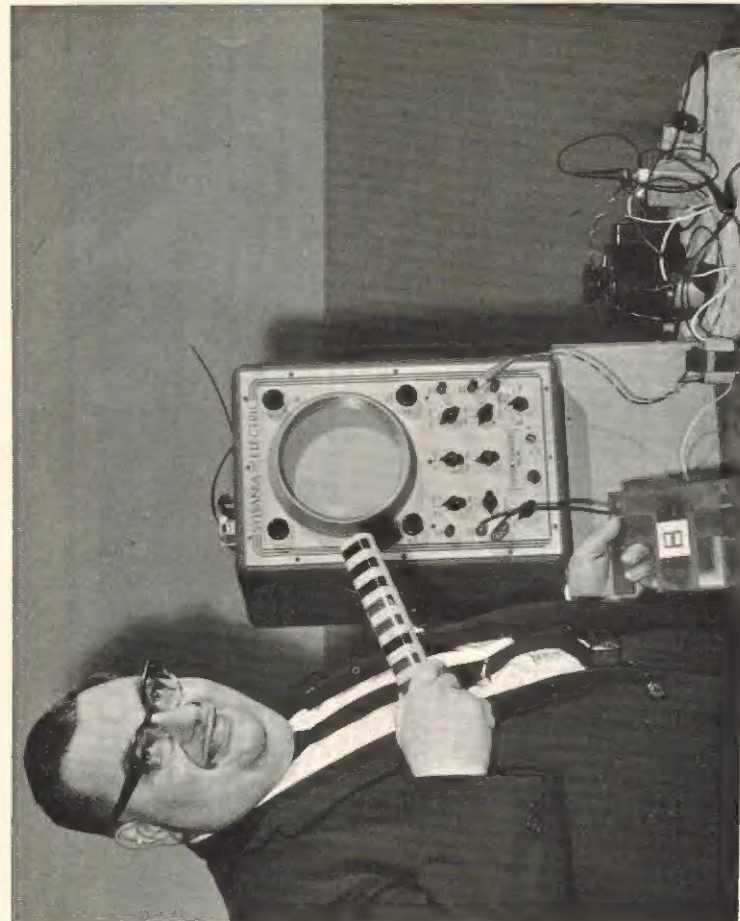
Now try this one: suppose you had two jobs offered you. Job A offered a starting salary of \$6,000 with a \$1,000 raise annually. Job B starts at the same salary, but has a \$250 raise every 6 months. Which one would you accept?



PROGRAM REVIEW

Nov. 12
Hank Wolfla, K9LZJ, shown above, gave the club an interesting demonstration on the fascinating properties of micro-waves. Using equipment borrowed from Purdue University, he glowingly described its cost in gigadollars, then showed us it works too. With it he was able to transmit a signal halfway across the meeting room, bounce it off a piece of metal, shut it off completely by putting his hand in front of the beam, and in general let it be known that these electrons are mighty tricky critters.

Nov. 26
Frank Owens, K9MWG, shown on the next page, gave the club another interesting and informative program on transformers. Frank first told how to measure a transformer's cross sectional area as a first step in determining its rating, then described how transformers are made commercially. He explained how to load a transformer until the secondary voltage drops to 7½ to 10% of its unloaded value for a single secondary transformer, or 5% for a multiple secondary transformer to approximate the capacity of that pile of iron and



copper you bought so cheap at the last auction. Frank demonstrated and explained the B-H curves of the transformer steel by using an oscilloscope, and closed by demonstrating a saturable reactor used to make a regulated transformer.

Again I say, you should have been there. We can't keep on telling you everything that goes on at club meetings.

* * * GRAHAMS SPECIALS OF THE MONTH * * *

EICO 753 with AC Power.....	\$320.00
Collins 75S3 Receiver.....	\$495.00
Collins 75A2A Receiver.....	\$225.00
Heath HX-10 Transmitter.....	\$265.00
Halllicrafter SX-122.....	\$220.00
R.M.E. VHF-126 Converter.....	\$175.06
Halllicrafter SX-101A.....	\$219.00
Halllicrafter SX-117.....	\$298.00
Clegg 99er.....	\$119.00
Heath HW-32 with AC Supply.....	\$150.00

AMATEUR MESSAGE FORM

Every message originated and handled should contain the following component parts in the order given:

1. PREAMBLE

- Number — beginning with 1 each month or year
- Precedence (R, P, P or Emergency — see below)
- Handling Instructions (see detail below)
- Station of Origin
- Check — number of words or groups in the text
- Place of Origin
- Time filed
- Date
- Address
- Text
- Signature

C.W. Example: NR 1 R HXA WIAW CK 8 NEWINGTON CONN 1830Z JULY 2
DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO
AA PHONE 733 3698 BT HAPPY BIRTHDAY X SEE YOU SOON X LOVE BT
DIANA AR.

On C.W.: note that X, when used in the text as punctuation, counts as a word. The prosign AA separates the parts of the address, BT separates the address from the text and the text from the signature. AR marks the end of message; this is followed by B if there is another message to follow, by N if this is the only or last message. It is customary to copy the preamble, parts of the address, text and signature on separate lines. On RTTY — Same as c.w. format above, with following exceptions: (1) Use TO before address. (2) Separate parts of address by an extra space instead of AA. (3) Use SGD preceding the signature. (4) Add a "CFM" line under the signature, consisting of all names, numerals and unusual words in the message, in the order transmitted.

On Phone — In general, say the meanings of all procedural signals. The above message on phone would go something like this: "Number one, routine, HX Alpha, WIAW, check eight, Newington, Connecticut, one eight thuhree zero zulu, July two, Donald R (as in Romeo) Smith, one six four East Sixth Avenue, North River City, Missouri, phone sev-ven thuhree thuhree thuhree six nuyen eight, happy birthday X-ray see you soon X-ray love, Diana, end of message, no more." Speak in measured tones, emphasizing every syllable. Spell out phonetically all difficult or unusual words, but do not spell out common ones.

Precedences

EMERGENCY — Any message having life and death urgency to any person or group of persons, which is transmitted by amateur radio in the absence of regular communication facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be very rare. On c.w., this designation will always be spelled out. When in doubt, do not use it.

PRIORITY — Important messages having a specific time limit. Official messages not covered in the "Emergency" category. Press dispatches and other emergency-related traffic not of the utmost urgency. Notification of death or injury in a disaster area, personal or official. Use abbreviation P on c.w. Inquiries as to the health or welfare of someone in the disaster area are handled after the above are cleared and are designated "priority two" (P2).

ROUTINE — Most traffic in normal times will bear this designation. In disaster situation, traffic labeled "Routine" (R on c.w.) should be handled last, or not at all when circuits are busy with emergency or priority traffic. Most traffic handled on amateur circuits in normal times will fall in this category.

The precedence will follow the message number. For example, on c.w., 207 R, or 207 EMERGENCY. On phone, "Two Zero Seven, Routine (or Emergency)" on phone.

Handling Instructions

HXA — (Followed by number.) Collect headline delivery authorized by addressee within miles. (If no number, authorization is unlimited.)

HXB — (Followed by number.) Cancel message if not delivered within hours of filing time; service originating station.

HXC — Report date and time of delivery (TOD) to originating station.

HXD — Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered report date, time and method of delivery.

HXE — Delivering station get reply from addressee, originate message back.

HXF — (Followed by number.) Hold delivery until (date).

This prosign (when used) will be inserted in the message preamble before the station of origin, thus: NR 207 R HXA50 WIAW CK 12 . . . (etc.). If more than one HX prosign is used, they can be combined if no numbers are to be inserted, otherwise the HX should be repeated, thus: NR 207 R HXAC WIAW . . . (etc.), but: NR 207 R HXA50 HXC WIAW . . . (etc.) On phone, use phonetics for the letter or letters following the HX, to insure accuracy.

Special ARRL QN Signals For C.W. Net Use

ONA* Answer in prearranged order.
ONB* Act as relay between and
ONC* All net stations copy.
OND* I have a message for all net stations.
ONE* Net is directed (controlled by net control station).
ONF* Entire net stand by.
ONG* Net is free (not controlled).
ONH* Take over as net control station.
ONI* Your net frequency is high.
ONJ* Net stations report in.*
ONK* I am reporting into the net. (Follow with list of traffic or QRX.)
ONL* Can you copy me?
ONM* Can you copy?
ONN* Transmit messages for to
ONP* Your net frequency is low.
ONQ* You are QRXing the net. Stand by
ONR* Net control station is
ONS* What station has net control?
ONT* Station is leaving the net.
ONU* Unable to copy you.
ONV* Move frequency to and wait for to finish handling traffic. Then send him traffic for and receive traffic.
ONW* Answer stations are in the net.* (Follow with list.) Request list of stations in the net.
ONX* I request permission to leave the net for minutes.
ONY* The net has traffic for you. Stand by.
ONZ* Establish contact with on this frequency. If successful, move to and send him traffic for
ONAA* How do I route messages for?
ONAB* You are excused from the net.
ONAC* Request to be excused from the net.
ONAD* Shift to another frequency (or to kc.) to clear traffic with
ONAE* Zero beat your signal with mine.
ONAF* For use only by Net Control Station.

C.W. Abbreviations and Procedure Signals

AA Separation between parts of address or signature
AA All After
AB All Before
ADEX Address
ADR Address
AR End of transmission,
End of message
ARL Indicator denoting use of an ARRL numbered message in the text.
Wait
BK Break; break me; bk in
BN Between
BT Double dash (separates text from address and signature).
C Yes; correct
CFM Confirm; I confirm
CK Check
IMI Question mark; repeat
KI Go ahead; invitation to transmit
N No; negative
NR Number
PBL Preamble
R Received solid
SIG Signature
SK End of QSO
TU Thank you
WA Word after
WB Word before

INTERNATIONAL Q SIGNALS FOR TRAFFIC HANDLING

ORU Have you anything for me? I have nothing for you.
ORV Are you ready? I am ready.
OSG Shall I send messages at a time?
OSK Send messages at a time.
OSL Can you hear me between your signals? I can hear you between my signals.
OSM Can you give me acknowledgment of receipt? I give you acknowledgment of receipt.
OSN Shall I repeat the last message I sent you? Repeat the last message you sent me.
OSP Will you relay to? I will relay to
OSZ Shall I send each word twice? Send each word twice.
OTA Shall I cancel number as if it had not been sent? Cancel number as if it had not been sent.
OTB Do you agree with my check? I do not agree with your check. I will repeat the first letter of each word and the first figure of each number.
OTC How many messages have you to send? I have messages for you (or for).

Notes on the Use of QN Signals

- The QN signals listed are special ARRL signals for use in amateur c.w. nets only. Other meanings that may be used in other services do not apply.
- Some QN signals are for use by net control stations only; these are marked with an asterisk (*). Others have slightly different meanings when used by the NCS and net stations; in this case the NCS meaning is marked with an asterisk (*).
- Some QN signals have two meanings, the difference depending on how or by whom used. Examples: (a) QNC, when used as a preface to transmission of a message, carries its first meaning; when used by a station reporting into the net (e.g., W9NCS DE W9NET QNI QNC), it carries its second meaning. (b) QNI, when used by the NCS, is a request for stations to report in; when used by a net station, it means that this station is reporting in. (c) QNJ, when used alone, has its first meaning; when followed by a call, it has the second meaning.
- QN signals are never followed by a question mark, even though the meaning may be interrogatory.
- Do not use QN signals on phone nets. Say it with words.
- Use QN signals in nets only. They are not for use in casual amateur conversation.
- Make frequent use of standard international "Q" signals in traffic nets, for meanings not covered by QN signals. Examples: QRU, QRV, QSV, QTA, QTB, QTX, etc. (See *Operating an Amateur Radio Station*.)

LET'S DO SOME SOUL SEARCHING

By Marsh Lincoln K9KTL

Another year will soon be upon us, and with it comes a new set of club officers and a new schedule of programs. At such a time it is important for all club members to seriously consider what each wants the club to be and to do in the coming year.

This is especially important right now because the IRC is not as healthy as it should be. Attendance at meetings has fallen off badly. The Indianapolis area ham directory, on the verge of becoming a traditional project with the IRC, went down in miserable defeat. A few of the local ham fraternity mutter darkly under their breaths about the IRC. We had to rely on a high school group to operate on Field Day this year. (No criticism of them intended--they did a mighty fine job.) Support for other club projects has been weak and disinterested. A few examples from projects in which I have been involved:

Only a very small handful of club members showed any interest in handling communications for the Ninety-Nines airlifts last year, although a number of operators in other parts of the state were eager to help out. After a test of an airborne ham station was announced, only one operator other than the three already directly involved showed up on the air--and he was not a club member! When a earlier test of a proposed special state net was made, we had many stations on the air, from Logansport to Anderson to Muncie to Terre Haute to Bloomington to Shelbyville--but only a couple from the IRC--and it was an IRC project!

When it was proposed that we trade off the well-worn Gooney Box (which gets very little use anymore, although it still works fine) and get a piece of test equipment, very little interest was shown. When it was suggested we buy a generator to have available for emergency communications needs (one of our responsibilities as amateurs), it took nearly a year of fiddling around before the job got done. After we finally got the generator, some members still didn't understand why we got it. Some thought it was just for Field Day, and others thought it was to be loaned out to members like the Gooney Box and tube checker.

About three months ago, a proposal was made for code and

theory classes to help not just club members but any local interested hams upgrade their abilities to prepare for a higher class license exam. As of this writing, virtually nothing has been done--again because nobody seems interested enough to grab the ball and run with it.

This just isn't like the Indianapolis Radio Club. This club has a long, colorful and proud history, and it has many members of considerable ability. Unfortunately, too many of these members have become "eating members." They are content to sit and watch and listen, while contributing nothing to the club in the way of enthusiasm, ideas or work. However, they do partake vigorously of the refreshments.

Recently it was learned the nominee for president would be unable to serve, so a search was made for a replacement candidate. The list of members was scanned, one by one. As the names were read off, the comment made after most names was either "seldom comes to meetings" or doesn't want to serve as an officer." Why is it that the people who grumble and mutter about the IRC being run by a clique never face the truth: the clique is composed of the people willing to do the work.

If you're tired of seeing the same faces up front at the meetings, why don't YOU let it be known you'd like to help? If you're tired of the kind of programs we've been having and want something different, why don't YOU suggest some program ideas--and then make yourself available to help if needed to make the programs successful? If you're tired of reading this sermon, why don't YOU contribute some news items to the club paper or offer to write an article on your favorite phase of ham radio?

A healthy, vigorous club can accomplish many things that individuals cannot do for themselves. Are YOU doing YOUR PART to support YOUR radio club?

* * *

WANTED -- A new editor for the Ama-Chewer. Must be able to type 60 words a week, stay awake during first half of business meetings (until bills are voted on), and correct spelling errors in Lucas' copy. Will trade for secluded acreage in Arizona having two giant saguaro cactus plants 130 feet apart.

ARRL BULLETINS

Official Bulletin Nr 32 Nov 4 1965

The annual ARRL cross-indexed Net Directory is now ready for distribution and copies are being mailed to those who have requests on file. Other copies will be mailed only upon specific request. There is no automatic mailing list. If you want a copy of the new ARRL Net Directory, mail or radio a request to the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111

Official Bulletin Nr 33 Nov 11 1965

ARRL Affiliated Clubs and their members are reminded of the continuing availability of training aids designed to enhance club education and interest. The League's Training Aids Program includes technical films, film strips and slide collections as well as quizzes and tape recordings on many phases of amateur radio technique, operation and history. Affiliated Club officers should request ARRL training aids well in advance of the date required. Full information is available from the ARRL Communications Department.

Special WIAW Bulletin Nr 728 Nov 12 1965

(reprinted here in shortened form)
It is the present policy of the Western Union Telegraph Co. to make certain surplus teleprinter and related equipment available on an as is basis from cities where released at no charge for use by licensed amateur operators who will use it for amateur traffic handling or training. Mr. Frank White, W3PYW, has been named coordinator between W. U. and local amateur radio societies with teleprinter members. A radio club cleared with W3PYW must normally claim and sign for RTTY equipment which the local amateur society will use or distribute to individual amateurs . . . W3PYW suggests that amateur radio club groups and RTTY group members, in order to receive further information on prospective RTTY equipment available and to get authorization for claiming more than a single unit may write him if they include a self addressed stamped envelope and please not to telephone . . . Address Frank C. White, 2706 Harmon Rd., Silver Spring, Md.

Official Bulletin Nr 34 Nov 16 1965

A reciprocal operating agreement becomes effective November 28 between the United States and Colombia. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there. The

United States has previously reached such agreements with Australia, Belgium, Bolivia, Canada, Costa Rica, the Dominican Republic, Ecuador, Luxembourg, Peru, Portugal and Sierra Leone. Many others are being negotiated and successes will be announced as they occur.

Official Bulletin Nr 35 is omitted. It concerned election of ARRL directors from several divisions outside our area. Information may be found in QST.

Official Bulletin Nr 36 Dec 2 1965

F1 radioteleprinter operation is currently authorized in the non-voice portions of the 80, 40, 20 and 15 meter bands. To bring ten meters into line with this basic allocation principle on other high frequency bands, the ARRL Executive Committee has directed the filing of a petition with the Federal Communications Commission seeking authorization for RTTY in the A1 segment 28.0 to 28.5 megacycles. It is anticipated that, as on other bands, RTTY stations will voluntarily select a spot frequency or two to centralize such activity.

Official Bulletin Nr 37 Dec 9 1965

A reciprocal operating agreement becomes effective immediately between the United Kingdom and the United States. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there. The current note covers the British Isles only. Separate agreements will be needed for other parts of the Commonwealth and the Crown Colonies. The United States has previously reached such agreements with Australia, Belgium, Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, Luxembourg, Peru, Portugal and Sierra Leone. Many others are being negotiated and successes will be announced as they occur.

* * * * *

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"ah, Mr. Lucas...if you have a moment...I represent a group
of your neighbors who...."

